

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 20

34855187.m MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
12746436.m MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
30017393.m MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
ZAK.h ZAK.h
32410365.y MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
24375503.b MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
28870332.b MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
15597698.b MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML
lias_TGFBFR MSSLGASFVQIKFDDLQFFENCGGSFGSVYRAKWIQDKEVAVKLLKIEKEAELISVLRNVIQFYVILEPINYIIVTEYASLGSLYIYINSNRSEEDMEHINWTADYAKCMEYLHMEAPVKVIIHRLDKSRSRNVIIIAADGVLKICDCDGASRFHNHTTHMSLVGTFFWMAPEVIOSLPSFCDCDYTSYGVVILWEML

210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 40

34855187.m TREVPFKGEGLQVANLVEKNERLTIIPSSCRSFASLHQCWEDAKKRPFKQIISIPESMNDTIDPDCQNSFLHNAEWRCEIEATLERPKKLERDLFSKEDEKPERERLKMWQKLTEQSNTPLLLFLSARMSEESYFESKTEBNSAEMSCQITAAENGEGHGNPSLQAMMLMFGDFVSFMNKAGAVLHSCM
12746436.m TREVPFKGEGLQVANLVEKNERLTIIPSSCRSFASLHQCWEDAKKRPFKQIISIPESMNDTIDPDCQNSFLHNAEWRCEIEATLERPKKLERDLFSKEDEKPERERLKMWQKLTEQSNTPLLLFLSARMSEESYFESKTEBNSAEMSCQITAAENGEGHGNPSLQAMMLMFGDFVSFMNKAGAVLHSCM
30017393.m TREVPFKGEGLQVANLVEKNERLTIIPSSCRSFASLHQCWEDAKKRPFKQIISIPESMNDTIDPDCQNSFLHNAEWRCEIEATLERPKKLERDLFSKEDEKPERERLKMWQKLTEQSNTPLLLFLSARMSEESYFESKTEBNSAEMSCQITAAENGEGHGNPSLQAMMLMFGDFVSFMNKAGAVLHSCM
ZAK.h TREVPFKGEGLQVANLVEKNERLTIIPSSCRSFASLHQCWEDAKKRPFKQIISIPESMNDTIDPDCQNSFLHNAEWRCEIEATLERPKKLERDLFSKEDEKPERERLKMWQKLTEQSNTPLLLFLSARMSEESYFESKTEBNSAEMSCQITAAENGEGHGNPSLQAMMLMFGDFVSFMNKAGAVLHSCM
32410365.y LEKCMGLNLSSLPNPMASHTGCNNKNDALLRSANRFEELDEPMEIDLKLAFLSFACNPCKEVQCTAAATAKAFTRDLEKIEWKMLDVCEIGECAS
24375503.b LQKMDAGNRLRSLPSTIADCRPEELLRITANSIPELPAWLSLALAWDAYADNPLC
28870332.b LQKMDAGNRLRSLPSTIADCRPEELLRITANSIPELPAWLSLALAWDAYADNPLC
15597698.b LQKMDAGNRLRSLPSTIADCRPEELLRITANSIPELPAWLSLALAWDAYADNPLC
lias_TGFBFR VIVGKMLKLAISTAGLHLHEIVGTQGKPAIAHRDKSKNIVKKNGTCCIAADLGIAVRFDSADTDIAD

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60

34855187.m QINMQAKNQSSKTTSFQGFFPLVQHILMAEVIGNCIKQTKTKRPEAKIKPRVQQAFAGTHCLPSSRGQLDDRQFLHWSVHASEHHRTREEAHESQVWSTQCALHIVRGFLTGGSATIDCALPHPEASAFFSSNASLHPLLQLSELVTPTRPPMLLPSFEGANTBEGRCGDVKPPVNRGRVMFKDKGFLVVTTSDVTE
12746436.m LLPSFEIGANTTED
30017393.m GVISRGGLWQ
ZAK.h GIXYQCRMNPA
32410365.y GIXTQAVMRN
24375503.b GVIRHAGWHQ
28870332.b GVIRHAGWHQ
15597698.b GVIRHAGWHQ
lias_TGFBFR GVIRHAGWHQ

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 80

34855187.m IPEKRAIAITTCPCCEWKSHYGSTARDDVNPSSEVQSLNAPYGRISPTRKLEALELIRELVYLSLVAHIFGSSSGKAESSVNSALFKRQINITGRKLLLEEDLKDGMIVSKHIIHFKSAIEKLTHDYNLFHPPLIKDGSEEPENEKRINNLELVEGFHFKPGTQKPGKMGGRGASVYEARQTEAEP
12746436.m DVYFWVQQLVLRKGDSAAEVSMASLFRKQINITGRKLLLEEDLKDGMIVSKHIIHFKSAIEKLTHDYNLFHPPLIKDGSEEPENEKRINNLELVEGFHFKPGTQKPGKMGGRGASVYEARQTEAEP
30017393.m DVYIWWVQQLVLRKGDSAAEVSMASLFRKQINITGRKLLLEEDLKDGMIVSKHIIHFKSAIEKLTHDYNLFHPPLIKDGSEEPENEKRINNLELVEGFHFKPGTQKPGKMGGRGASVYEARQTEAEP
ZAK.h SAEYAEVAKVKEKGGVTSDTGTRDEMAVLAACFHECLIVLKVWVGHDEVVEGAVTAECGEKKFQGGIVMOLIPEYYVALQLPSP
32410365.y MVAATGSEIIAVKLEKGEVTSDDGYPADELDCCLTIGHPNLIKVLABHS
24375503.b QKDLDGIVMMLIPAGFANGLQLPSP
28870332.b HEDRNGVWMLIAPDFTNLAGAPS
15597698.b DGSSTRIVAKLKEKGEVTSDDGTAESMAACLAAGRHAOLAEVVLCOLAG
lias_TGFBFR NHRVGTKRYMAPEVLDLDSINMKHFEFSKRADITYANGLFWIELARRCSIGGHEPYQLEYLMDLVPSPDS

810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 10

34855187.m GLISMDLTQAFPPPLGLRLNKEHGSAGRAEAREGLVSTKGTAACPVHIVVRQKKCDRCAPTLGLNSLPAVAETSPSPSSQQGTGSRSRIPQMAIALDFLLRGFSQEAEGNEEDFCKAQVQSAELEDVTRVKEPSEASVSSISLLFYTAVTDIIFLAHGPCAPIAVAPKQRSPERRETCSVVTIDVRKQDCKWKM
12746436.m DCKWKM
30017393.m DCKWKM
ZAK.h DCKWKM
32410365.y FDTCISRDCH
24375503.b LDICICRDPK
28870332.b LESCSDRVYIA
15597698.b LESCSDRDVYI
lias_TGFBFR VEEEMRKVVC

1200 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190

34855187.m EMDGDEIAIYIKDVTNTSLPDAEILKUTKPPVMEKHWIVKVDQIvectvtyeSdvrtpkstkvhvsIQWDRAKPDEVKAQVLAQTFSSSEGNPGSRSDSSADCQWLDTLRLMRQIAQHSSLQRQSNSPILGSPFFQYFVNQDSYAAAVRRTQTPVYQOITPSINPGRSSPTQYGLTKNFSSLHNSRDSGFS
12746436.m EMDGDEIAIYIKDVTNTSLPDAEILKUTKPPVMEKHWIVKVDQIvectvtyeSdvrtpkstkvhvsIQWDRAKPDEVKAQVLAQTFSSSEGNPGSRSDSSADCQWLDTLRLMRQIAQHSSLQRQSNSPILGSPFFQYFVNQDSYAAAVRRTQTPVYQOITPSINPGRSSPTQYGLTKNFSSLHNSRDSGFS
30017393.m EMDGDEIAIYIKDVTNTSLPDAEILKUTKPPVMEKHWIVKVDQIvectvtyeSdvrtpkstkvhvsIQWDRAKPDEVKAQVLAQTFSSSEGNPGSRSDSSADCQWLDTLRLMRQIAQHSSLQRQSNSPILGSPFFQYFVNQDSYAAAVRRTQTPVYQOITPSINPGRSSPTQYGLTKNFSSLHNSRDSGFS
ZAK.h EMDGDEIAIYIKDVTNTSLPDAEILKUTKPPVMEKHWIVKVDQIvectvtyeSdvrtpkstkvhvsIQWDRAKPDEVKAQVLAQTFSSSEGNPGSRSDSSADCQWLDTLRLMRQIAQHSSLQRQSNSPILGSPFFQYFVNQDSYAAAVRRTQTPVYQOITPSINPGRSSPTQYGLTKNFSSLHNSRDSGFS
32410365.y EDASLSAEEALGMLTQTAGAALAHQRCGTAHDLYAHNLAIAKDRHALLGDGFQAATYTG
24375503.b TDEEVAYGAQMKRQFQVHFAHLLEDVLGLIRREKEKKSTQTPEATAVVAADAPPAFDSELTVEEEEVIFQOLQEKLQKQCADPQVNCRPS-FEDIAVEEDLVGFRGMRRIPDNIN
28870332.b PGTQFSQEQVATIAHQALADTIAHMHAQVSHGDVYAHNMVQNQMN-LIFGDFGAAQNLGN-
15597698.b LSTLEQLAMAEVTEALGCLIEDLJL
lias_TGFBFR AYVDEEVNAEH-YAQLSAIAKACMQSDVALRPR-FEVVKQAIASILLISTSA
SDTRFSQEVLLRLATGTAAVTAHLHANGTTHDLYGHNILWQ-ADGQDQDGLDFGAASFPHP-SADAG-QALEBRARAFAGLLEGE
PGLRFEATATALAASLAALMAHLHGRQHSGDQYAHNILW-EDGACIQLDFGAAQSLPD-DAVLA-GALRFACLEPPE
OKLRPNIPNRWQSCAELRVMAKIMRECWYANGAARLTALKKTLSQLQQBEGIKM

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340

34855187.m SLN-DSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
12746436.m SLN-DSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
30017393.m SLN-DSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
ZAK.h SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
32410365.y SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
24375503.b SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
28870332.b SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
15597698.b SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF
lias_TGFBFR SGNDTSSSERGRYSDRERNKYYGRGSISLNSPGRYSGKSQHSPTSPRGYPKFYRVQSALNTHQSPDFKRSRPNDDRRAPKTIPGMLPETAPEGEEESRVSEGWWTKVEYRKKTHRQLSAKTSKDRTRGNYRGRNF